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PTO/SB/05 (03-01) Approved for use through 10/31/2002. OMB 0651-0032 Please type a plus sign (+) inside this box -U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY
PATENT APPLICATION
TRANSMITTAL

Attorney Docket No. 2480 nventor HOFFMAN et al. FURNACE HEARTH FOR IMPROVED MOLTEN First Inventor IRON PRODUCTION AND METHOD OF OPERATION EL 873244221 US Express Mail Label No.

ew nonprovisional applications under 37 CFR 1.53(b))

(Only for flew non-provisional applications under 57 of X 1.25(5))						
APPLICA	TION ELEMENTS		ADD	RESS TO:	Assistant Con Box Patent Ap	nmissioner for Patents oplication O
See MPEP chapter 600 cond	cerning utility patent application conte	nts.			Washington,	DC 20231
1. X Fee Transmittal F. (Submit an original and a Applicant claims s See 37 CFR 1.27. 3. X4. Specification (preferred arrangemen - Descriptive title - Cross Reference - Statement Registrate - Reference to se or a computer properties - Background of - Brief Summary - Brief Description - Detailed Description - Detailed Description - Claim(s) - Abstract of the Answers - Claim(s) - Abstract of the Summary - Brief Description - Detailed Description - Claim(s) - Abstract of the Answers - Claim(s) - Abstract of the Summary - Brief Description - Claim(s) - Abstract of the Summary - Brief Description - Claim(s) - Abstract of the Summary - Brief Description - Claim(s) - Abstract of the Summary - Abstract of the Summary - Claim(s) - Abstract of the Summary - Abstract of the Summary - Claim(s) - Abstract of the Summary - Abstract	orm (e.g., PTO/SB/17) duplicate for fee processing) small entity status. [Total Pages 24] It set torth below) of the invention se to Related Applications arding Fed sponsored R & D squence listing, a table, program listing appendix the Invention of the Invention on of the Drawings (if filed) ption Disclosure I.S.C. 113) [Total Sheets 3 [Total Pages 2 uted (original or copy) prior application (37 CFR 1.63 (d))]]	7. [8. Nuc (if a a. [b. :] 9. [10. [11. [12. [13. [13. []]	CD-ROM or Computer Proceedings of the Computer Proceedings of the Computer Proceedings of the Computer Proceedings of the Computer Procedure Proce	Washington, CD-R in duplicate ogram (Appendia mino Acid Seque cessary) Readable Form (Council Listing or ROM or CD-R (2) er s verifying identify YING APPLIC Papers (cover si 3(b) Statement of s an assignee) instation Docume Disclosure (IDS)/PTO-1449 Amendment ceipt Postcard (M	p. (arge table or c) conce Submission concern
i. DELET Signed ste named in 1.63(d)(2)	tion/divisional with Box 18 completed (ION OF INVENTOR(S)) Itement attached deleting inventor(s) the prior application, see 37 CFR and 1.33(b). Sheet. See 37 CFR 1.76)	15. [16. [17. [Certified Co	Applicant must a	
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) Of prior application No.: Prior application information: Examiner Group Art Unit For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompany of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompany of the prior application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has the prior application the submitted application parts.						
X Customer Number or Bar C	ode Label	garinan Kabliat		or	Correspon	dence address below
Name	Gregory N. Clements	•				
Address City	DOUGHERTY & GLEMENTS 6230 Fairview Road, Charlotte	Suit	e 400 tate) NC	Zip (Code28210
Country	USA	Teleph	one	704/366-6	6642 Fa	704/366-974
Name (Print/Type)	Gregory N. Clements	· · · · · · · · · · · · · · · · · · ·	Reg	istration No. (A	Attorney/Agent)	30,713
Signature	Gryn Wlennt				Date	01/24/02

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Group Art Unit

Attorney Docket No.

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2480

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FEE TRANSMITTAL for FY 2002 Patent fees are subject to annual revision.					
	Application Number				
	Filing Date				
	First Named Inventor	HOFFMAN et al.			
	Examiner Name				

(\$) 1,040.00

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

METHOD OF PAYMENT (check all that apply)	FEE CALCULATION (continued)					
Check X Credit card Money Other None	3. ADDITIONAL FEES					
Deposit Account:	Large Entity Small Entity					
Deposit		Fee (\$)	Fee	Fee e (\$)	Fee Description	Fee Paid
Account Number 04-1448		130	205	65	Surcharge - late filing fee or oath	
Deposit Account Name Dougherty & Clements	127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
The Commissioner is authorized to: (check all that apply)	139 1	130	139	130	Non-English specification	
Charge fee(s) indicated below Credit any overpayments	147 2	,520		2.520	For filing a request for ex parte reexamination	
X Charge any additional fee(s) during the pendency of this application			112		Requesting publication of SIR prior to	
Charge fee(s) indicated below, except for the filing fee					Examiner action	
to the above-identified deposit account.	113 1,	,840*	113	1,840°	Requesting publication of SIR after Examiner action	
FEE CALCULATION	115 1	110	215	55	Extension for reply within first month	
1. BASIC FILING FEE	116	400	216	200	Extension for reply within second month	
Large Entity Small Entity Fee Fee Fee Fee Fee Description	117 9	920	217	460	Extension for reply within third month	
Code (\$) Code (\$) Fee Paid	118 1,	.440	218	720	Extension for reply within fourth month	
101 740 201 370 Utility filing fee 740	128 1.	.960	228	980	Extension for reply within fifth month	
106 330 206 165 Design filing fee	119 3	320	219	160	Notice of Appeal	
107 510 207 255 Plant filing fee 108 740 208 370 Relssue filing fee	120	320	220	160	Filing a brief in support of an appeal	
108 740 208 370 Relssue filing fee 114 160 214 80 Provisional filing fee	121 2	280	221	140	Request for oral hearing	
	138 1,	,510	138	1,510	Petition to institute a public use proceeding	
SUBTOTAL (1) (\$) 740	140	110	240	55	Petition to revive - unavoidable	
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	141 1,	,280	241	640	Petition to revive - unintentional	
Fee from Extra Claims below Fee Paid	142 1,	,280	242	640	Utility issue fee (or reissue)	
Total Claims 32 -20** = 12 × 18.00 = 216.0	143	460	243	230	Design issue fee	
Independent 4 - 3** = 1 x 84.00 = 84.0	144 (620	244	310	Plant issue fee	
Multiple Dependent =	122	130	122	130	Petitions to the Commissioner	
	123	50	123	50	Processing fee under 37 CFR 1.17(q)	ļ
Large Entity Small Entity	126	180	126	180	Submission of Information Disclosure Stmt	
Code (\$) Code (\$)	581	40	581	40	Recording each patent assignment per property (times number of properties)	
103 18 203 9 Claims in excess of 20 102 84 202 42 Independent claims in excess of 3	146	740	246	370	Filing a submission after final rejection	
104 280 204 140 Multiple dependent claim, if not paid					(37 CFR § 1.129(a))	\vdash
109 84 209 42 ** Reissue independent claims over original patent	149	740	249	370	For each additional invention to be examined (37 CFR § 1.129(b))	
110 18 210 9 ** Reissue claims in excess of 20	179	740	279	370	Request for Continued Examination (RCE)	
and over original patent	169	900	169	900	Request for expedited examination of a design application	
SUBTOTAL (2) _ (\$) _300.00				<u></u>		
**or number previously paid, if greater; For Reissues, see above	*Reduc	ced b	y Bas	ic Filing	Fee Paid SUBTOTAL (3) (\$)	

SUBMITTED BY					Complete (if applicable)		
Name (Print/Type)	Gregory N Clements	Registration No.	30.713	Telephone	704/366-6642		
Signature	Turny Wlement			Date	January 24,2002		

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deposited with the United States Postal Ser	fy that the foregoing or attached documents are being rvice as Express Mail, postage prepaid, in an envelope Trademarks, Washington, D.C. 20231 on
<u>January 24, 2002</u>	
	Patricia P. Summer
	Name: Patricia P. Summers
	Express Mail Label Number EL 873244221 US
	January 24, 2002
	Date of Deposit

NONPUBLICATION REQUEST UNDER 35 U.S.C. 122(b)(2)(B)(i)

First N	amed Inventor	HOFFMAN et al.		
Title	FURNACE HEARTH FOR IMPROVED MOLTEN IRON PRODUCTION AND METHOD OF OPER			
Atty Do	ocket Number	2480		

I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

January 24, 2002

Date

Gregory N. Clements
Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing.**

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant must notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).

Burden Hour Statement: This collection of Information is required by 37 CFR 1.213(a). The Information is used by the public to request that an application not be published under 35 U.S.C. 122(b) (and the PTO to process that request). Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 6 minutes to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.